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	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
APPLICATION NO.	FILING DATE		DIVER1120-4	4902	
09/886,400	06/20/2001	Dennis Murphy	DIVERNIZE		
	590 02/27/2002	EXAMINER			
LISA A. HAILE, Ph.D. GRAY CARY WARE & FREIDENRICH LLP			RAMIREZ, DELIA M		
Suite 1600 4365 Executive	e Drive	ART UNIT	PAPER NUMBER		
San Diego, CA	92121	1652			
		DATE MAILED: 02/27/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application I	No.	Applicant(s)	
•		09/886,400		MURPHY ET AL.	
· Offic	ce Action Summary	Examiner		Art Unit	
		Delia M. Ram	nirez	1652	
The MA	ALING DATE of this communicati	on appears on the co	over sheet with the	correspondence ac	idress
Period for Reply					
THE MAILING - Extensions of time after SIX (6) MOI - If the period for recommendation of the second of the secon	ED STATUTORY PERIOD FOR DATE OF THIS COMMUNICATE may be available under the provisions of 37 NTHS from the mailing date of this communicately specified above is less than thirty (30) day eply is specified above, the maximum statutor within the set or extended period for reply will, it is by the Office later than three months after the adjustment. See 37 CFR 1.704(b).	CFR 1.136(a). In no event, tion. ys, a reply within the statutor y period will apply and will e	however, may a reply be y minimum of thirty (30) d opire SIX (6) MONTHS fro	timely filed lays will be considered time om the mailing date of this NED (35 U.S.C. § 133).	ely. communication.
Status	t a summination(s) filed	on			
<i>,</i> —	nsive to communication(s) filed	on ⊠ This action is no	on-final		
2a)☐ This a	ction is FINAL . 2b) this application is in condition fo	s allowance except f	or formal matters.	prosecution as to	the merits is
3)☐ Since closed	this application is in condition to I in accordance with the practice	under Ex parte Qua	ayle, 1935 C.D. 11	, 453 O.G. 213.	
Disposition of C					
4)⊠ Claim(s	s) <u>1-92</u> is/are pending in the app	olication.	.:.downtion		
	he above claim(s) is/are	withdrawn from cons	sideration.		
	s) is/are allowed.				
6)∐ Claim(s) is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) <u>1-92</u> are subject to restriction	and/or election requ	irement.		
Application Pag	oers	•			
9)∐ The spe	ecification is objected to by the E	Examiner.			
10)☐ The dra	awing(s) filed on is/are: a)	accepted or b)	objected to by the b	-xaminer.	a)
Appli	cant may not request that any objec	tion to the drawing(s)	be held in abeyance	e. See 37 CFR 1.83(a). niner
11) The pro	pposed drawing correction filed o	on is: a)∐ ap	proved b) disa	pproved by the Exam	iiiioi.
	proved, corrected drawings are requ		ice action.		
12) <u>□</u> The oa	th or declaration is objected to b	y the Examiner.			
Priority under	35 U.S.C. §§ 119 and 120			40(-) (d) or (f)	
13) Ackno	owledgment is made of a claim fo	or foreign priority un	der 35 U.S.C. § 1	19(a)-(u) or (i).	
	b) ☐ Some * c) ☐ None of:				
1.	Certified copies of the priority d	ocuments have bee	n received.	tantian No	
2.	Certified copies of the priority d	ocuments have bee	n received in Appl	ication No	nal Stage
3.☐ * See the	Copies of the certified copies of application from the Internate attached detailed Office action	for a list of the certi	fied copies not rec	ceived.	
14) Acknow	vledgment is made of a claim for	r domestic priority u	nder 35 U.S.C. § 1	119(e) (to a provisio	onal application).
\	he translation of the foreign lang wledgment is made of a claim fo	uiage provisional ap	plication has been	n received.	
Attachment(s)	-				
1) Notice of Re	eferences Cited (PTO-892) aftsperson's Patent Drawing Review (PT Disclosure Statement(s) (PTO-1449) Pa	⁻ O-948) per No(s)	4) Interview Sur 5) Notice of Info 6) Other:	mmary (PTO-413) Pape ormal Patent Application	r No(s) · (PTO-152)
U.S. Patent and Trademark	(Office	Office Action Summ	arv	F	Part of Paper No. 7

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-23, 40-41, 67-85, drawn to the polynucleotide of SEQ ID NO: 3, probes comprising a fragment of said polynucleotide, and a method of expressing said polynucleotide, classified in class 536, subclass 23.2.
 - II. Claims 24-35, 64, 86-87, drawn to the polypeptide of SEQ ID NO: 4 and a preparation comprising said polypeptide, classified in class 435, subclass 208.
 - III. Claims 36-39, drawn to antibodies that specifically bind the polypeptide of SEQID NO: 4, classified in class 530, subclass 387.1.
 - IV. Claim 56, drawn to a computer readable medium, classified in class 711, subclass4.
 - V. Claims 57-60, drawn to a computer system, classified in class 717, subclass 11.
 - VI. Claims 42-55, drawn to a method of generating a variant of SEQ ID NO: 3, classified in class 435, subclass 440.
 - VII. Claims 61-63, drawn to a method for comparing sequences, classified in class 707, subclass 3.
 - VIII. Claim 65, drawn to a method of catalyzing the hydrolysis of saccharides using the polypeptide of SEQ ID NO: 4, classified in class 435, subclass 18.
 - IX. Claim 66, drawn to an assay for detecting fragments or variants of SEQ ID NO:4, classified in class 435, subclass 18.

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X. Claim 88-92, drawn to a method for modifying small molecules using the polypeptide of SEQ ID NO: 4, classified in class 435, subclass 18.

The inventions are distinct, each from the other because of the following reasons:

- Inventions I and II, III, IV, or V are unrelated. Inventions are unrelated if it can be shown 2. that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case Inventions I-V each comprise a chemically unrelated structure capable of separate manufacture, use, and effect. The DNA in Invention I comprises a nucleic acid sequence, the proteins of Inventions II and III each comprise an unrelated amino acid sequence, the computer readable medium is a device used to record electronic data, and a computer system is an electronic device capable of retrieving, storing, and processing data. The DNA has other uses besides encoding the protein of Invention II, such as a hybridization probe or in gene therapy. The protein from Inventions II can be used in materially different methods other than to make the antibodies of Inventions III, such as in therapeutic or diagnostic methods (e.g. in screening). Further, the protein of Invention II can be prepared by processes which are materially different from recombinant DNA expression of Invention I such as by chemical synthesis, or by isolation and purification from natural sources. The computer readable medium of Invention IV or the computer system of Invention V The DNA are not related to the DNA of Invention I or the proteins of Inventions II-III in regard to structure, use or effect.
 - 3. Inventions I and VI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product

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as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the DNA of Invention I can be used in the method of Invention VI and to make the protein of Invention II.

- 4. Inventions II and VIII-X are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the protein of Invention II can be used in the distinct methods of Inventions VIII, IX, or X.
- 5. Inventions IV-V and VII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the computer readable medium of Invention IV and the computer system of Invention V can be used in the method of Invention VII.
- 6. Inventions VI and VII-X are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the methods of Inventions VI-X are not disclosed as capable of use together, comprise different steps, utilize different products, and produce different results.

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7. Because these inventions are distinct for the reasons given above, have acquired a separate status in the art as shown by their different classification and their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement can be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Certain papers related to this application may be submitted to Art Unit 1652 by facsimile transmission. The FAX number is (703) 308-4556. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 CFR 1.6(d)). NOTE: If Applicant submits a paper by FAX, the original copy should be retained by Applicant or Applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED, so as to avoid the processing of duplicate papers in the Office.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delia M. Ramirez whose telephone number is (703) 306-0288. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Ponnathapura Achutamurthy can be reached on (703) 308-3804. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Delia M. Ramirez, Ph.D. Patent Examiner

Art Unit 1652

DR

February 24, 2002

PONNATHAPU ACHUT MURTHY

SUPERVISORY PATENT EXAMINER TECHNOLOGY (20% THE 1000)